



inductive sensor XS1 M12 - L33mm - brass - Sn2mm - 12..24VDC - cable 2m

XS1N12PC410

Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Device application	Mobile equipment
Sensor name	XS1
Sensor design	Cylindrical M12
Size	37 mm
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Metal
Type of output signal	Discrete
Wiring technique	4-wire
[Sn] nominal sensing distance	2 mm
Discrete output function	1 NO + 1 NC
Output circuit type	DC
Discrete output type	PNP
Electrical connection	Cable
Cable length	2 m
[Us] rated supply voltage	1224 V DC with reverse polarity protection
Switching capacity in mA	<= 200 mA with overload and short-circuit protection
IP degree of protection	IP68 conforming to IEC 60529 IP65

Complementary

Safety level	SIL 2 conforming to EN/IEC 61508 PL = d conforming to EN/ISO 13849-1 SILCL 2 conforming to IEC 62061
Safety reliability data	MTTFd = 1810 years PFHd = 62.9E-9 1/h SFF = 92 % DC = 74 % with appropriate safety controller
Service life	20 year(s)

Thread type	M12 x 1
Detection face	Frontal
Front material	PPS
Enclosure material	Nickel plated brass
Operating zone	01.6 mm
Differential travel	115% of Sr
Cable composition	4 x 0.22 mm²
Wire insulation material	PvR
Status LED	Output state: 1 LED (yellow)
Supply voltage limits	936 V DC
Switching frequency	<= 5000 Hz
Maximum voltage drop	<2 V (closed)
Current consumption	010 mA no-load
Maximum delay first up	5 ms
Maximum delay response	0.1 ms
Maximum delay recovery	0.1 ms
Marking	CE
Threaded length	25 mm
Length	37 mm
Net weight	0.07 kg

Environment

Standards	IEC 62061 EN/ISO 13849-1
Product certifications	TÜV E2 UL CSA
Ambient air temperature for operation	-2570 °C
Ambient air temperature for storage	-4085 °C
Vibration resistance	25 gn amplitude = +/- 2 mm (f = 1055 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn for 11 ms conforming to IEC 60068-2-27

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	81.0 g
Package 1 Height	4.2 cm
Package 1 width	9.5 cm
Package 1 Length	13.2 cm
Unit Type of Package 2	S02
Number of Units in Package 2	22
Package 2 Weight	2.117 kg
Package 2 Height	15 cm
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Package 2 width	30 cm
Package 2 Length	40 cm
Package 3 Height	15 cm
Offer Sustainability	
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes

Contractual warranty

Environmental Disclosure

Circularity Profile

Warranty	18 months
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Product Environmental Profile

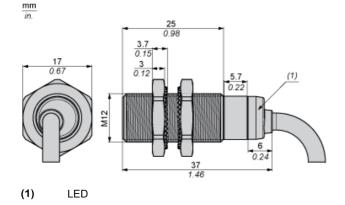
End of Life Information

Product datasheet

XS1N12PC410

Dimensions Drawings

Dimensions

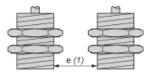


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Mounting and Clearance

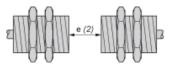
Minimum Mounting Distances

Side by side



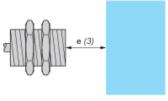
e (1) ≥ 4 mm/0.16 in.

Face to face



e (2) ≥ 24 mm/0.94 in.

Facing a metal object



e (3) ≥ 6 mm/0.24 in.

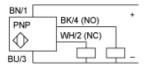
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Connections and Schema

Wiring Schemes

PNP 4-wire



BU: Blue
BN: Brown
BK: Black
WH: White

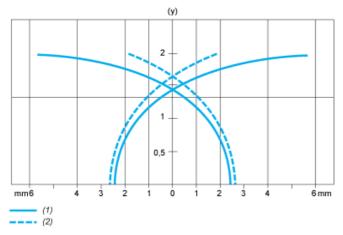
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Performance Curves

Performance Curves

Standard Steel Target: 12x12x1 mm



- (1) (2) (y) Pick-up points Drop-out points (object approaching from the side) Sensing distance in mm